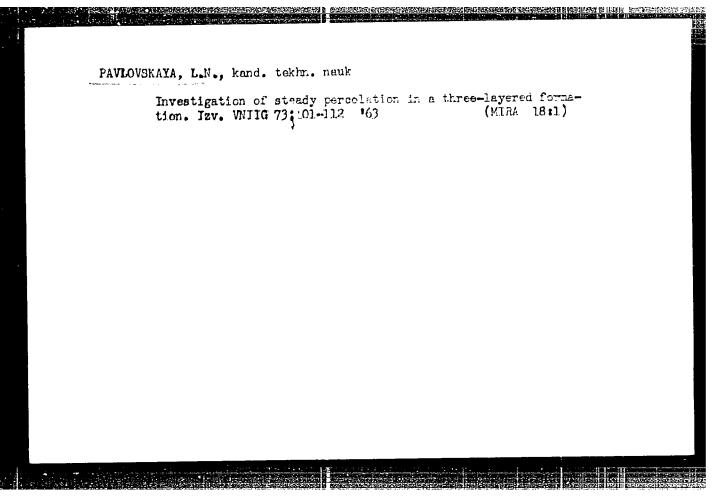
VASHKOV, V.I., prof.; PAVLOVSKAYA, L.G.

Control of epidermophytosis in an industrial enterprise. Vest. (MIRA 15:5)

derm.i ven. 35 no.5:50-54. '62. (MIRA 15:5)

1. Iz TSentral'nogo nauchno-issledovatel'skogo dezinfektsionnogo instituta (dir. - prof. V.I. Vashkov).

(DERMATOMYCOSIS) (INDUSTRIAL HYGIENE)



PAVLOVSKAYA, L.N., kand. tekhn. nauk; FEDOROVA, V.V., inzh.

Some problems of modeling the unsteady percolation of groundwater in a two-layer medium on electric grids of active resistance. Izv. VNIIG (MIRA 18:10) 76:169-184 '64.

PACANCE BARES OF THE SHEET AND SHEET SHEET SHEET BASH AND SHEET SECTION OF SHEET

PAVLOVSKAYA, L. H. Cand Tech coi -- "Filtration of water-decreasing installations" Len, 1960 (Min of Higher and Secondary Specialized Education RSFSR.

Len Polytechnic Inst im M. I. Kalinin). (KL, 1-61, 195)

-222-

CHUGAYEV, Roman Romanovich, prof., doktor tekhn. nauk; PAVLOVSKAYA, L.N., red.; SOBOLEVA, Ye.M., tekhn. red.

[Underground contouring of hydraulic structures]Podzemnyi kontur gidrotekhnicheskikh sooruzhenii. Moskva, Gosenergoizdat, 1962. 279 p. (MIRA 15:9) (Hydraulic structures)

GIRSHKAN, I.A., otv. red.; ARABADZHYAN, I.R., red.; GORELIK, L.V., red.; YERYKHOV, B.F., red.; KYAKK, V.A., red.; PECHENKIN, M.V., red.; PAVLOVSKAYA, L.N., red.; SUDAKOV, V.B., red.; SHUL'MAN, S.G., red.

[Collection of reports on hydraulic engineering] Sbornik doklador po gidrotekhnike. Moskva, Gosenergoizdat, 1961. 243 p. (MIRA 17:7)

1. Nauchno-tekhnicheskaya konferentsiya molodykh nauchnykh rabotnikov, 2d, 1961.

PAVLOVSKAYA, L.N., mladshiy nauchnyy sotrudnik

Seepage factors of water-lowering devices in the construction transhes of hydraulic structures. Izv.VNIIG 64:191-214 160. (MIRA 14:5)

(Drainage)

PAVIOVSKAYA, L.H., inzh.

Tield of imperfect water-table lowering wells in case of a straight chain of wells sunk in a homogeneous band-shaped layer.

I\_zv.VNIIG 59:210-214 '58. (MIRA 13:7)

(Wells)

PAVLOVSKAYA, L.N., mladshiy nauchagy sotrudnik

Experimental investigation of edditional scepage resistance caused by the imperfectness of wells with respect to the degree of the penetration of strata in case of a straight chain of nonartesian wells. Izv.VNIIG 62:171-177 '59. (MIRA 13:6) (Wells)

PAVLOVSKAYA, L. S. Cand Med Sci -- (dips) "Antibiotic treatment of inflammations of the gall bladder and bile-secreting tracts." Mos, 1958.

15 pp (Min of Health USSR. Central Inst for the Advanced Training of Physicians), 200 copies (KL, 52-58, 107)

-197-

PAVLOUSKAYA, L.S. (Kostroma)

Divincin therapy of inflamatory diseases of the biliary tract.

Klinsmed, 36 no.11:133-135 N '58 (MIRA 11:12)

1. Iz terapevitcheskogo otdeleniya (zav. - L.S. Pavlovskaya)

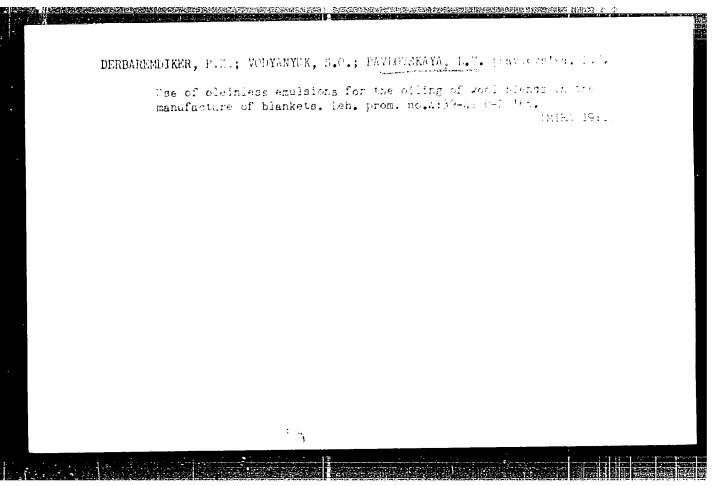
Kostromskoy oblastnoy bol'nitay (nauchnyy rukovoditel'-deystvitel'nyy chlen ANN SSSR prof. N.S. Vovel).

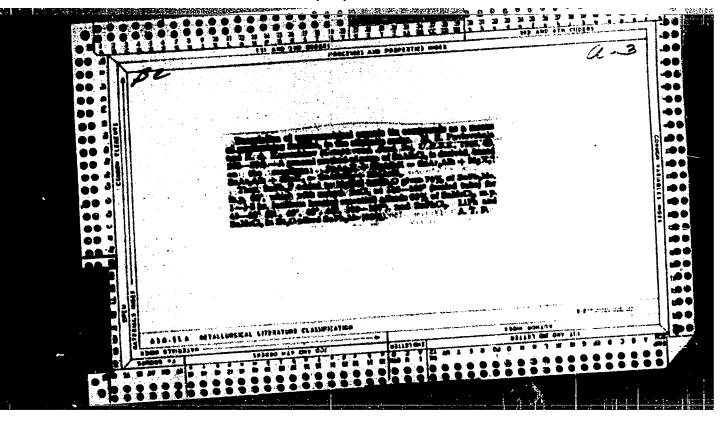
(GHIANOITIS, therapy

chlortetracycline (Rus))

(GHIORTETRACYCLINE, ther. use.

cholengitis (Rus))





ACCESSION NR: AP5022604	UR/0190/65/007/109/1580/1584
AUTHORS: Nemirovskiy, V. D.; Pavlo	ovskaya, M. A.; Stepanov, V. V.; Skorokhodov,
TITLE: Synthesis of poly-Q-hydrox N-dialkylcarbamates	gvingl-N-alkyl-and poly-8-hydroxyvingl-N,
SOURCE: Vysokomolekulyarnyye soyed	lineniya, v. 7, no. 9, 1965, 1580-1584
TOPIC TAGS: polymer, synthesis, ca dimethyl formamide, infrared spectr	rbamata. molyvinylena carbonata alimi modical
Phydroxyvinyl-N,N-dimethylcarbama molecular polyvinylene carbonate in tion. The structure of the polymer infrared spectra with the spectra of N-alkylcarbamates. The conditions	lkylcarbanates, in which the alkyl radical is , cyclohexyl and β-hydroxyethyl, and polyte were synthesized by aminolysis of high dimethylformamide or dimethylsulforide solus was determined by the comparison of their f the corresponding model of β-hydroxyethyl-of synthesis and the infrared spectral data olyvinylene carbonate to poly-β-hydroxyvinyl-

L 1576-66

ACCESSION NR: AP5022604

12/

N-alkyl carbamates (N-alkylcarbamic esters of polyvinylene glycol) was verified by the elementary analysis of the latter and from their properties (especially solubility). The solubility depends on the substituent at the carbanate atom of nitrogen and on the degree of substitution. A large number of hydroxyl groups results in a higher solubility in lower alcohols, acetic acid, and sometimes in water, Solubility decreases with increasing radical length (except for poly-6hydroxyvinyl-N-alkyl carbamates with N-methyl and N-ethyl groups). The experimental data show that the aminolysis of polyvinylene carbonate does not cause appreciable degradation. The thermomechanical and physicomechanical properties of the resulting polymers (glass temperature, film strength, sedimentation, solubility, viscosity of solutions) were investigated. X-ray analysis showed that the solutions are film-forming. Films from N-butyl carbamates (methanol solution) have a glass temperature of 1630, tensile strength of 800 kg/cm2 (in a partially oriented state 1600 kg/cm2). From a 15% methanol solution this polymer gives a fiber with an approximately 10 km breaking length. The authors express their gratitude to Ye. I. Pokrovskiy, K. K. Kalmin'sh Ye. F. Fedorova, G. V. Lyubimova, M. I. Besschov, and L. Levus for carrying out the thermomechanical investigations, and to S. I. Klenin for the diffracentrifugal experiments. Orig. art. has: 1 figure and 1 table, 4,55

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"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001239710010-7

L 1576-66 ACCESSION NR1 AP	5022604 titut vysoko	inle fee	warmykh	zovedi	ieniy, A	SSSR	Institute	of
ASSOCIATION: Ins High-Molecular Co	mpounds, an	Journ J					CODE: GC	'
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ZAGORODSKAYA, M.M.; PAVLOVSKAYA, M.A.

Glinical radiographic characteristics of inflamatory suppurative processes in cystic lung. Vrach. delo no.6:148-149 Je '61.

1. Kafedra rentgenologii (zaveduyushchiy - prof. A.Ye.Rube.sheva)

Kiyevskogo instituta usovershenstvovaniya vrachey.

(RADIOGRAPHY) (LUNGS\_DISEASES)

AKHMEDBABAYEV, M.Kh.; ARIFDZHANOV, K.A.; BELOUSOV, N.A.; BELYAKOV, S.P.;

ZOTOV, V.G.; ISAYEVA, Z.D.; MAKHMUDOV, I.A.; ISHCHENKO, F.S.;

KRASIL'NIKOV, Ya.A.; NIKOL'SKIY, I.P.; NETSETSKIY, A.M.;

PERGAT, P.P.; PAVLOVSKAYA, H.D.; SAMSONOV, L.S.; PCLIZHAKEV,

A.I.; SMIRNOV, F.Ye.; SABININ, M.N.; SHUTYAYEV, N.A.; CHIZHIK,

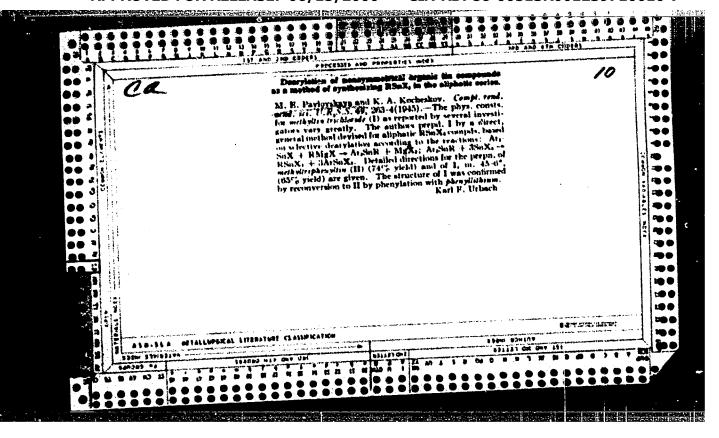
V.I.; KARPENKO, P.M.; IMEROV, A.I.

Mikhail Aleksandrovich Nenetskii; obituary. Veterinariia 37 no.10:94 0 '60. (MIRA 15:4) (Nenetskii, Mikhail Aleksandrovich, 1899-1960)

FAVLOUSKAYA, M. E.

"Dearylation of Non-Symmetrical Organic Tin Compounds as
a Method of Synthesizing RSnK3 in the Aliphatic Series,"

Dok. AN, 49, No. 4, 1945. -c1945-.



PAVLOVSKAYA, M.I., otv. 2a vyp.; SERGEYEVA, A.I., red.12d-va; VASIL YEVA, N.N., tekhm. red.

[Standard production norms for track repair on heaves based on technical specifications] Tipovye tekhnicheski obosnovannye normy vyrabotki po ispravleniiu zheleznodorozhnogo puti na puchinakh. Moskva, Transsheldorizdat, 1963. 22 p. (MIRA 16:10)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i sooruzheniy.

(Railroads---Maintenance and repair)

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PAVLOVSKAYA, M.I., otv. za vypusk; SFRGEYEVA, A.I., red. izd-va; VOROTNIKOVA, L.F., tekhn. red.

[Instructions for railroad traffic safety during track work (TsP/2021)]Instruktsiia po obespecheniiu bezopasnosti dvizheniia poezdov pri proizvodstve putevykh rabot; v otmenu... izdaniia 1952 g.(TsP/2021). Moskva, Transzheldorizdat, 1962. 170 p. (MIRA 15:7)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye puti i soobshcheniy.

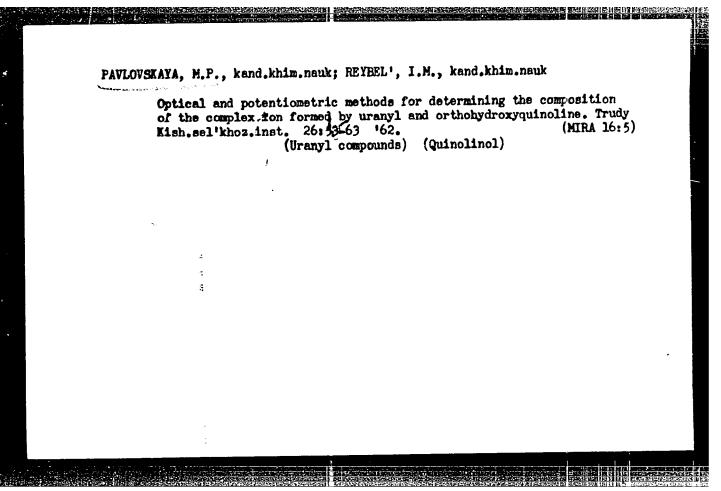
(Railroads-Traffic-Safety measures)

PAVLOVSKAYA, M.P., kand.khim.nauk; REYEEL', I.M., kand.khim.nauk

Determination of the composition of a complex compound of uranyl with oxine (in 2,5 M CH COOH) in the presence of isoamyl alcohol. with oxine (in 2,5 M CH COOH) 162.

Trudy Kish.sel'khoz.ingt. 26:65-71 '62.

(Uranyl compounds) (Quinolinol)



PAVLOVSKAYA, M.P., kand.khim.nauk; REYBEL', I.M., kand.khim.nauk

Potentiometric titration used for determining the composition of a complex compound formed by the uranyl ion and sulfosalycilic acid. (MIRA 16:5)

Trudy Kish.sel'khoz.inst. 26:73-79 '62. (MIRA 16:5)

(Urany) compounds) (Salicylic acid) (Potentiometric analysis)

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PAVIOUS AND , kand khim nauk; REYBEL', I.M., kand khim nauk; AYZENBERG, R.S., kand khim nauk

Composition of a complex compound of aluminum and juglone in solution. Trudy Kish.sel'khoz.inst. 26:149-157 '62. (MIRA 16:5) (Aluminum organic compounds) (Juglone)

# PAVLOVSKAYA, M. P.

Defended his Dissertation for Candidate of Chemical Sciences in the Saratov State University, Saratov, 1953

Dissertation: "Research in the Field of Mercurometry"

SO: Referativnyy Zhurnal Khimiya, No. 1, Oct. 1753 (W/29955, 26 Apr 54)

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**《公司》,如此时间的数据的证明的证明的证明的证明的证明的对象** 

<del>5(2)</del> AUTHORS:

Pavlovskaya, M. P., Reybel!, I. M.

S/078/60/005/02/024/045 B004/B016

TITLE:

Complex Formation of the Uranyl Ion With 8-Hydroxyquinoline

PERIODICAL:

Zhurnal neorganicheskoy khimii, 1960, Vol 5, Nr 2, pp 393-395

(USSR)

ABSTRACT:

The reaction mentioned in the title was investigated in the presence of an excess of pyridine! The optical densities of isomolar solutions of uranyl acetate and 8-hydroxyquincline were determined by the FM type photometer at 200, and the pH was measured by means of the LP-5 type potentiometer (Figure). The maximum optical density occurs at a ratio of uranyl ion : hydroxyquinoline = 1 : 1 and at pH = 7.00. The composition of the complex compound was determined by potentiometric titration (Table). It corresponds to a ratio of UO2+: 8-hydroxyquinoline = = 1: 1. The authors describe the application of the color reaction of the uranyl ion with 8-hydroxyquinoline as drop reaction for the qualitative determination of the uranyl ion. At a maximum dilution of 1: 11267 in 2 ml solution, still 177.5 x uranium can be determined even in the presence of other ions. The authors refer to papers by V. D. Vasilenko, B. E.

Card 1/2

SHPEYYER, L.F.; PAVLOVSKAYA, M.Ye.

Synthesis of nitrogen derivatives of phenocyacetic acid. Report No.1: Azophencxyacetic acids. Ukr. khim. zhur. 30 no.1:63-65 '64. (MIRA 17:6)

1. Khar'kovskiy sel'skokhozyaystvennyy institut imeni V.V. Dokuchayeva.

RAGIMOV, Sh.S.; PAVLOVSKAYA, N.A.

Determining the direction towards an epicenter from Rayleigh and Love waves. Dokl. AN Azerb. SSR 19 no.1:31-33 '63. (MIRA 16:4)

1. Institut geologii AN AsSSR. Predstavleno akademikom AN AzSSR A.D.Sultanovym. (Elustic vaves)

S/076/60/034/05/27/038 B010/B003

5.4110

Sof'ina, V. V., Pavlovskaya. N. G.

TITLE:

AUTHORS:

w\_ - - 1,

Equilibrium State of the Ti - H and Zr - H Systems at

Low Pressures

PERIODICAL:

Zhurnal fizicheskoy khimii, 1960, Vol. 34, No. 5.

PP. 1104-1109

TEXT: When accelerating substances with metal targets saturated with hydrogen isotopes are used, it is necessary to know the permissible temperature that does not reduce the efficiency of the targets. Since the existence of a "metal - hydrogen" equilibrium has hitherto not been investigated at pressures of less than 10-3 torr, the systems Ti-H and Zr-H were examined at pressures of 10-3 to 10-7 torr in the article under review. The metals were saturated with hydrogen by a method described in Ref. 6 until they had almost attained the composition of MH2. The hydrogen concentration (Table) and the dependence of equilibrium pressures on temperature, respectively, were determined in metal hydrides

Card 1/3

Equilibrium State of the Ti - H and Zr - H S/

Systems at Low Pressures

8/076/60/034/05/27/038 B010/B003

30735

by means of a pressure gauge with an M-2 (LH-2) ionization tube and an AT-2 (LT-2) thermocouple pressure gauge. From these dependence curves the isobaric and isothermal lines (Figs. 2-5) were drawn. The experiments showed that there is an equilibrium state in the systems investigated at pressures of 10-3 to 10-7 torr. The system Zr-H is thermally more stable at low pressures with respect to hydrogen separation than the system Ti-H. The reaction heat of the hydride formation of Ti and Zr is not constant, and its temperature- and pressure dependences vary with the hydrogen content of the metal. The heat of formation of titanium hydride increases from 19 to 44 kcal/Kol and that of the zirconium hydride from 29 to 42 kcal/Mol. The authors assume that three different processes take place: 1) Dissolution of hydrogen in the a-phase of the metal, 2) transition of the  $\alpha$ -phase into the  $\beta$ -phase (hydride formation), and 3) dissolution of hydrogen in the  $\beta$ -phase. In conclusion, the authors thank V. A. Tsukerman, Doctor of Technical Sciences, Ya. B. Zel'dovich, Corresponding Member of the AS USSR, and V. A. Davidenko, Doctor of Physical and Mathematical Sciences, for their valuable advice. There are 8 figures, 1 table, and 7 references: 3 Soviet, 2 American, and 2 English.

Card 2/3

# PAVLOVSKAYA N. I. (Moskva)

Treatment of chronic myeloleukosis with myelosan. Klin.med. 36 no.7:82-88 J1 '58 (MIRA 11:11)

1. Iz TSentral'noy klinicheskoy bol'nitsy imeni Semashko
Ministerstva putey soobshcheniya (nach. bol'nitsy V.P. Akopov,
nauchnyy rukovoditel' terapevticheskoy kliniki - zaslyzhennyy
deystel' nauki chlen-korrespondent AMN SSSR prof. I.A. Kassirskiy).

(IEUKEMIA, MYELOCYTIC, ther.
busulfan in chronic dis. (Rus))

(BUSULFAN, ther. use chronic myelocytic leukemia (Rus))



**5/081/60/000/010/004/0**09 A166/A129

AUTHORS:

Pavlovskaya, N.N.; Shultin, A.I.

TITLE:

The electrochemical behavior of nickel in sulfuric acid-and ferric

sulfate solutions

PERIODICAL: Referativnyy zhurnal. Khimiya, 1960, no. 10, 76, abstract 38104.

(Uch. zap. Leningr. gos. ped. in-ta im. A.I. Gertsena, 1959, v. 160,

no. 1, 207 - 219)

Anode polarization curves were plotted for Ni in H2SO4 [1; 2 N.] and TEXT: 2 N. H2804 + Fe2(SO4)3 [1; 2 and 4.4 N.] solutions in a range from +0.250 to +2.055 v (n.v.e.). The anode polarization curves consist of two sections divided by the passive state area ( $\sim$ 1.5 v). In solutions of varied composition the curves coincided well with each other. Comparison of the anode current density (ia) with the weight losses of the electrode in 1 N. H<sub>2</sub>SO<sub>4</sub> showed that in the first section of the anode polarization curve the current is consumed entirely in dissolving Ni. When ia = 65 - 70 ma/cm<sup>2</sup> in 1 N. H<sub>2</sub>SO<sub>4</sub>, Ni passivation occurs; in the presence of Fe2(SO4)3 this effect is observed at lower 1a values. The second section of the curve corresponds to liberation of O2. When the anode polariza-

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VINOGRADOV, G.V.; IYAN GO-LIN' [Liang Kuo-lin]; PAVLOVSKAYA, N.T.

Effect of pro- and anticxldants on the lubricating action of mineral cils. Neftekhimia 1 no. 3:427-432 My-je '61.

(NIRA 16:11)

1. Institut neftekhimicheskogo sinteza.

# VINOGRADOW, G.V.; LYAN GO-LIN' [Liang Kuo-lin]; PAVLOWSKAYA, N.T. Wear preventing and antifriction properties of lubricating oils under heavy friction conditions. Tren.i izn.mash. no.15:432-477 (MIRM 15:4) \*62. (Lubrication and lubricants—Testing)

VINOGRADOV, G.V.; LYAN GO-LIN' [Liang Euo-lin]; PAVLOVSKAYA, N.T.

Higher aliphatic acids as additives to mineral oils for use in connection with high friction of metals; use of stearic acid. Neftekhimiia 1 no.2:28C-285 Mr-Ap '61. (MIRA 15:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Lubrication and lubricants---Additives)
(Stearic acid)

## 

VINOGRADOV, G.V.; LYAN GO-LIN' [Liang Kuo-lin]; PAVLOVSKAYA, N.T.

Oxidants as a basis for the lubricating action of mineral oils.

Oxidants as a basis for the lubricating action of mineral oils. Neftekhimiia 1 no.2:274-279 Mr-Ap 161. (MIRA 15:2)

1. Institut neftekhimicheskogo sinteza AN SSSR.
(Mineral oils)
(Lubrication and lubricants)

PAVLOVSKAYA N. T

Composition and Properties of the High Molecular (Cont.) 647
Weight Fraction of Petroleum; Collection of Papers, Moscow, Izd-vo AN SSSR, 1958, 370pp
troleum products were tested (e.g. kerosene fractions). The performance of lube oils was examined at high surface friction and with various additives (sulfur, phosphorus, chlorine). Oils used were: transformer oils, SU, AK-15. A close study of the NPF (naphthene-paraffin fraction) perties of the oils. The NPF from various crudes are different and their sensitivity to additives vary (especially towards organophosphoric wear-references.

198

Pavlovskaya, N.T., Vinogradov, G.V., Bezborod'ko, M.D. Wear-Resistance Properties and Oxidizability of the Naphthene-Paraffin Fractions of Viscous and Low-Viscosity Petroleum Oils
Since friction tests show the importance of oil composition, in particular of the NPF, a through study was made of this fraction. The NPF of

transformer oil and of MS-20 were used in these tests. Results show that it is possible to achieve an exact differentiation of the various naphthene. paraffin fractions obtained from petroleum oils with different viscosity oileast. It was shown that the NPF of low-viscosity oils have a lower oxidation stability. There are 5 figures and 3 Soviet references.

Card 12/22 \*2nd Collection of Papers publ. by AU Conf, Jan 56, Moscow.

PAVLOVSKAYA, N. T., VINOGRADOV, G. V., SEMECHKIN, L. Ya.

"Changes in the Composition of Motor Oils During Service" p. 185

Composition and Properties of the High Molecular Weight Fraction of Petroleum; Collection of Papers, Moscow, Ind-vo AN SSSR, 1955 370pp. (Auta neft).

2nd Collection of papers publ. by AU Conference, Jan 56, which

In order to study the effect of working conditions on lubricating oils, two oils were chosen: MS-14 (GOST 1013-49) obtained from Emba crudes, and motor oil SU (GOST 1707-51) obtained from Balakhany crudes. These oils were tested on several engines. Characteristics of initial and spent samples are given. The test s on piston engines showed that a period of 60 hours of service does not lead to a change of the chemical group-composition of oils. Longer periods (100 hours) are needed to cause noticeable changes. There are two tables and 4 references of which 3 are Soviet and 1 English.

TSURKAN, I.G.; VIEOGRADOV, G.V.; PAVLOVSKAYA, E.T.; HOROZOVA, O.Ye.

Wear-preventive properties of oils from eastern crudes. Khim, 1
tekh.topl. i masel. 3 no.8:29-34 Ag '58. (MIRA 11:9)

1.Institut nefti AN SSSR.

(Lubrication and lubricants)

AUTHORS:

Pavlovskaya, N. T., Kos'kun, G. I.

sov/32-24-7-27/65

Bezborod ko, M. D.

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TITLE:

A Method of the Preparation of Microsections for the Metallographic Analysis of the Places of Wear (Metodika izgotovleniya shlifa dlya metallograficheskogo analiza pyatna iznosa)

PERIODICAL:

Zavolskaya Laboratoriya, 1958, Vol. 24, Nr 7,

pp. 840 - 841 (USSR)

APSTRACT:

This investigation was conducted according to suggestions by Professor Vinogradov and Professor B.I.Kostetskiy. A new method was used, which consisted of investigating the lubricating power of oils in machines with four balls. Polished sections showing the cross-section of the place of wear were prepared. A special steel binding, which is given in a figure, was used. The final polishing of the microsection after the stress test is made in the presence of chromium oxide and aluminium oxide. The etching is carried out with a 4% nitric acid solution in alcohol. It appears from the micrographs of some sections that the netal

Card 1/2

surface of Shkho steel changes considerably at 2000 and certain

A Method of the Preparation of Microsections for the Metallographic Analysis of the Places of Wear SOV/32-24-7-27/65

friction and load conditions, this change being dependent upon the gas and oil medium. Data are given for an argon and an oxygen atmosphere with transformer oil. There are 2 figures.

ASSOCIATION: Institut nefti Akademii nauk SSSr (Petroleum Institute, AS USSR)

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BEZBORDD'KO, M.D.; VINDGRADOV, G.V.; PAVLOVSKAYA, B.T.; TSURKAB, I.G. (Moskva)

Wear-resistant properties of lubricapts and the effect of various factors on wear-resistant properties of crude oils, Izv.AN 555R,
Otd.tekhanauk no.12:104-114 D '58, (NIRA 11:12)

(Imbrication and lubricants--Testing)

(Petroleum--Testing)

SOV/32-24-10-40/70

AUTHORS: Bezborod'ko, M. D., Payl vskaya, N. T., Vinograiov, G. T.

TITLE: A Friction Machine for Testing the Lubrication Properties of Petroleum Products (Mashina treniya dlya ispytaniya smazochnoy

sposobnosti nefteproduktov)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1267-1269 (USSR)

ABSTRACT: The machine described in the present paper was devised by Y. D.

Zelenskiy; later on the authors of this paper completed the work on it. From the schematic representation it may be seen that the machine consists of the friction unit, the loading device, the drive, and the automatic recording instrument. With a shaft revolution of 600 revs/min. an illumination by two neon lamps SN:-1, and at higher speeds one by a high-voltage neon lamp takes place. The maximum relative error in the determination of the revolution speed is ± 1%. From a diagram of the friction unit and its description it may be seen that a heating up to 95° can take place by means of a thermostat TS-24.

A heating to 300° can be achieved by an electric heater, with a pyrometric millivoltmeter of the type MRShchr-54, and a trans-

Card 1/2 former of the type 117 -9 being used. The friction unit is

A Friction Machine for Testing the Lubrication Properties of Petroleum

loaded by a hydraulic arrangement containing a manometer of the type MF -1. The spindle oil AV is used. The measurement of the places of wear is carried out by means of a microscope MP -5. The reproducibility of the experimental results was investigated with a petroleum paraffin fraction of the oil MS-2C according to the one-minute method (Ref 3) at n=600 revs/min. There are 3 figures and 3 references, which are Soviet.

ASSOCIATION: Institut nefti Akademii nauk SSSR (Petroleum Institute AS USSR)

Card 2/2

39833

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S/081/62/000/011/040/057 E202/E192

AUTHORS:

Vinogradov, G.V., Liang Kuo-lin, and Pavlovskaya, N.T.

TITLE:

The influence of pro- and anti-oxidants on the

lubricating action of petroleum oils

PERIODICAL: Referativnyy zhurnal, Khimiya, no.11, 1962, 520. abstract 11 M 216. (Neftekhimiya, v.1, no.3, 1961,

427-432).

TEXT: A 4-ball friction machine was employed using an earlier procedure (see R.Zh.Khim., 3, 1962, M218) to test paraffin fractions of petroleum oils (NF) which did not contain additives, and those containing 0.5% of benzyl peroxide (I) and 0.5% I  $\pm$ 2,6-tert-butyl-4-methylphenol (II; II as an anti-oxidant). The tests were carried out: 1) in vacuum at approximately 10-5 mm Hg (with NF distilled in vacuum and kept without contact with air); 2) by blowing 02 through NF . The coefficient of friction was determined in relation to load and the seizure load (NZ). Introduction of I into NF caused considerable increase of NZ in the tests carried out in vacuum, in tests with the passage of argon, and in tests in air. In tests with the passage Card 1/2

The influence of pro- and anti- ... S/081/62/000/011/040/057 E202/E192

of 02, introduction of I increased the coefficient of friction for loads lower than NZ and lowered considerably NZ; the seizure was, however, stopping rapidly during further increase of loads. Introduction of II (up to 10% concentration) into NF during the vacuum tests did not affect the results, and in tests in air and with the passage of oxygen (where a certain amount of seizure at increased loads was observed) did not influence the load causing initial seizures, but lowered the loads of the subsequent intensive seizures and the welding loads. It was concluded that II as an anti-oxidant retards the oxidation of the oil by preventing the accumulation in it of the active oxidants and thereby makes easier the appearance of intensive seizures.

[Abstractor's note: Complete translation.]

Card 2/2

31976 S/081/61/000/023/049/061 B107/B110

11.9000 also 1583

AUTHORS: Fezborod'ko, M. D., Pavlovskaya, N. T., Arkharova, V. V.

TITLE: Effect of composition and nature of gaseous media on the antifrictional properties of mineral lubricating oils

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 23, 1961, 453, abstract 23M115 (Tr. 3-y Vses. konferentsii po treniyu i iznosu v mashinakh. M., AN SSSR, v. 3, 1960, 177-186)

TEXT: A four-ball machine with a special friction joint permitting the introduction of gases was used for the investigation. The effect of gaseous media (air, argon, nitrogen, oxygen) on the antifrictional properties of the following lubricants was studied; naphthene - paraffin and aromatic fractions of oils and oil extracts boiling in a narrow range which were produced in the Groznenskiy zavod (Grozny works), Bakinskiy zavod (Baku works), and Novo-Kuybyshevskiy zavod (Novo-Kuybyshev works).

Various metals, INX6 (Shkh6) and HN229 (EI229) steels and bell (BrB2) beryllium bronze were tested at high specific pressures and temperatures. It has been found that the nature of the gaseous media has an effect upon

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SOV/24-58-12-17/27

AUTHORS: Bezborod'ko, M.D., Vinogradov, G.V.,

Pavlovskaya, N.T. and Tsurkan, I.G. (Moscow)

TITLE: Anti-Wear Properties of Lubricants and the Influence of

Various Factors on the Anti-Wear Properties of Petroleum Oils (O protivoiznosnykh svoystvakh smazochnykh materialov i o vliyanii razlichnykh

faktorov na protivoiznosnyye svoystva neftyanykh masel)

PERIODICAL: Izvestiya Akademii Nauk, Otdeleniye Tekhnicheskikh

Nauk, 1958, Nr, pp 104-114 (USSR)

ABSTRACT: The authors discuss the required properties of lubricants.

They note that mercury and some liquid alloys could satisfy the requirements of a lubricant for many metals and go on to describe their experimental work with these materials. The four-ball testing machine described in the literature (Ref.2) was used. Experiments were made in air with 1/2" spheres of ball-bearing chronium steel and of beryllium bronze, the lubricants being mercury and Wood's alloy. Fig.1 shows wear at 20°C and speeds of 21 and 57 cm/sec for steel/steel and bronze/bronze ac functions of load and Fig.2 shows the

functions of load and Fig. 2 shows the curves for liquid Wood's alloy at 80, 90 and 200°C. Analgams of Wood's

SGV/24-58-12-17/27

Anti-Wear Properties of Lubricants and the Influence of Various Factors on the Anti-Wear Properties of Petroleum Oils

alloy with 40% mercury, especially if containing 2% MoS2 proved very effective lubricants at very heavy loads. The friction versus time curves for mercury and Wood's alloy lubrication of steel (Fig. 3) and berylliumbronze (Fig.4) spheres show that a considerable time is required for a steady state to be reached: the authors associate this wind the removal of surface oxide films. They go on to deal with lubrication by petroleum oils. In their experiments the non-polar naphthens-paraffin fractions of a bright stock of mixed Surakhansk and Karachukhursk oils and of transformer oil were used. The kinetics of steel wear were studied at 50 and 150°C and sliding rates of 23 and 46 cm/sec and the effects of loading (Fig.5), one series (curve 6) being carried out above the critical lead value. In view of the results obtained single-minute tests were adopted. These included tests in which various atmospheres (air, nitrogen, oxygen, argon and superheated steam) were provided and Fig.6 shows typical results for steel

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SOV/24-58-12-17/27

Anti-Wear Properties of Lubricants and the Influence of Various Factors on the Anti-Wear Properties of Petroleum Oils

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obtained at 50°C and a speed of 23 cm/sec with the bright-stock material. The curves show that the atmosphere greatly affects both the dry friction and the anti-wear properties of the lubricant. At 20000 results obtained with oxygen were almost the same as those in fused eutectic mixtures of NaNO3, KNO3 and NaNO2. Similar results were obtained with transformer oil. When spheres of 18% Cr semi-ferritic stainless steel were used the nature of the atmosphere affected the wear curves differently. A selection of curves for spheres of this material and other spheres, various lubricants and test conditions is given in Fig. 7. With spheres merely coated with oil, both oil oxidation and surface hardening of steel were more intense than when oil was present in bulk. To find the influence of the scale factor tests were carried out with standard ball-bearing spheres from 5.95 to 19.05 mm in diameter, at speeds of 5-86 cm/sec and with the bulk of the oil at room temperature. The authors discuss the temperature and friction effects and show that there should be a

Card 3/5

30V/24-51-12-17/27

Anti-Wear Properties of Imbricants and the Influence of Various Factors on the Anti-Wear Properties of Petroleum Cils

critical temperature corresponding to the critical load. They deduce dimensionless equations and give results of experiments in which the information on the movement of the oil (required for applying the equations) was obtained by following the movement of ornre particles in the oil during a test. For treating the data the authors used an experimental relation between the friction coefficient and speed of sliding for sutcritical loads (Fig.8) and they show calculated and experimental values for the influence of the scaling factor, speed of sliding and friction coefficient on the critical loads (Fig. 9 and table), the relations obtained being similar to those for gears (Ref.6). Fig.10 shows the results of the investigation of the temperature dependence of the critical load for various oils with 1/2" chromium ball-bearing steel balls. Metallographic study of sections cut slanuwise through worn spots on the steel balls in the direction of sliding confirmed the expectation that at temperatures

Card 4/5

SOV/24-58-12-17/27

Anti-Wear Properties of Imbricants and the Influence of Various Factors on the Anti-Wear Properties of Petroleum Oils

of the order of 200°C the nature of the atmosphere was the main factor. The authors maintain that in evaluating the lubricating properties of oils the nature of the wear process must be taken into account and briefly discuss this. There are 10 figures, 1 table and 8 references of which 7 are Soviet and 1 English.

SUBMITTED: 7th December 1957.

Card 5/5

VINOGRADOV, G. V.; KOREPOVA, I. V.; PODOLSKIY, Yu. Ya.; PAVLOVSKAYA, N. T.

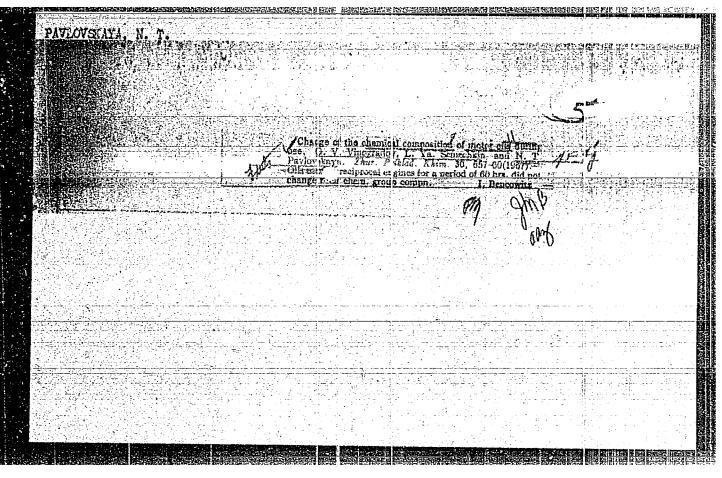
"Effect of oxidation on boundary friction of steel in hydrocarbon medial and critical friction duties under which cold and hot seizure (or welding) develop."

report presented at the Intl Lubrication Conf, Washington, D.C., 13-16 Oct 64.

Inst of Petrochemical Synthesis, AS USSR, Moscow.

Priotion machine for testing the lubricating capacity of petrolems products. Zav.lab. 24 no.10:1267-1269 \*58. (MIRA 11:11)

1. Institut nefti AN SSSR. (Testing machines) (Imbrication and lubricants)



PAVIOVSEAVA, N. N. -- "On the Kindtics of the Dissolving of Mickel in Columbia of Cortain Unicipalities." \*(Dissortations For Digness In Tailone and Engineering Defender at USSR Higher Educational Institutions.)

(34). Leningrad State Pedagogical Institutions in Chair of Inorganic Chemistry, Leningrad, 1955

SO: Knizhnaya Letopsi', N. 34, 20 August 1955

\* For the Degree of Candidate in Chemical Sciences

JUV/65-58-9-6/14

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Tsurkan, I. G; Vinogradov, G. V; Pavlovskaya, N. T. AUTHORS:

and Morozova, O. Ye.

Anti-Wear Properties of Oils from Eastern Petroleum. (Protivoiznosnyye svoystva masel iz vostochnykh neftey). TITLE:

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.8. PERIODICAL:

pp. 29 - 34. (USSR).

During investigations on the useful characteristics of ABSTRACT:

oils from Eastern petroleums, it was found that the anti-wear (lubricating properties) had not been studied sufficiently. Surface - and chemically active metals influence those properties to a very large degree. Investigations were based on results obtained by M. S. Borovaya on diesel oil fractions from Tuymazy, Binagadi. These oils have similar viscosities, but and Baku. different chemical composition (Table 1). Further tests were carried out on oils and intermediates obtained from the Novokuybyshevsk Petroleum Refinery. Characteristics of these products and their viscosities and sulphurcontent are given in Table 2. Solutions containing sulphides and disulphides in the oils were tested. Fig. 1: friction diagrams obtained from naphthenic-paraffinic fractions of the oil SU. These tests showed that the viscosity of the petroleum products from the Novokuy-

Card 1/3

Anti-Wear Properties of Oils From Eastern Petroleum.

byshevsk Petroleum Refinery only changed slightly during processing. Table 3: various methods used for evaluating the properties are compared. Fig.4: test results on the lubricating properties of structural-group composition of three diesel cils. These investigations showed that the medium viscosity products of Eastern petroleums have the highest effect. Fractions separated with the aid of isooctane show average properties. For all these aromatic products an almost horizontal line on the wear curves in the region of 60 - 70 to 90 kg loads is typical. The medium fraction, separated with isooctane, shows an optimum combination of chemically active sulphur compounds and viscosity. This investigation has made it possible to present a new method of evaluating the lubricating properties of the oils, to ascertain that during the processing of semi-goudron the lubricating property of the oily petroleum products decreases, and to find a limit in the lubricating properties of the

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SOV/65-58-8-6/14

Anti-Wear Properties of Oils From Eastern Petroleum.

structural components of oils which may or may not contain sulphur compounds. There are 4 Figures, 2 Tables and 4 Soviet References.

Institut nefti AN SSSR. (Petroleum Institute, AS USSR). ASSOCIATION:

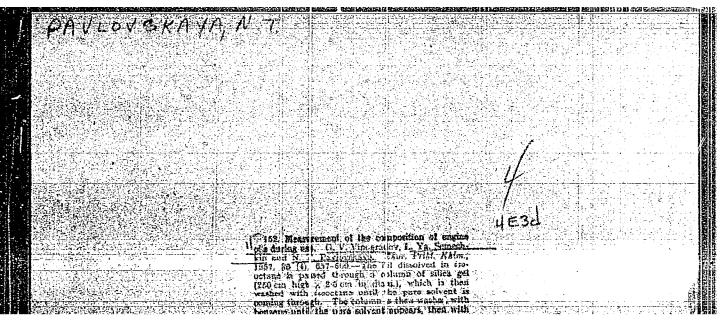
1. Dils--Test results

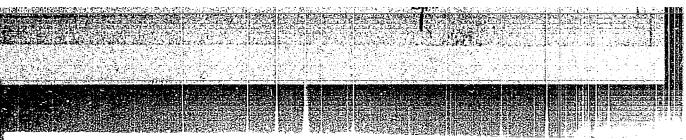
Card 3/3

PAVLOVSKAYA, N.T.; KOS'KUN, G.I.; BEZBOROD'KO, M.D.

Hethod of preparation of a polished section for the metallographic analysis of a worn spot. Zav. lab. 24 no. 7:840-841 '58. (MIRA 11:7)

1. Institut nefti AN SSSR.
(Bearing metals--Metallography)





VINOGRADOV, G.V.; KUSAKOV, M.M.; BEZBORODKO, M.D.; PAVLOVSKAYA, N.T.; ZELENSKIY, V.D.; KRETN, S.E.; BOROVAYA, M.S.

Mear-preventive properties of petroleum eils. Khim.i tekh.tepl.
ns.l:61-3 of cever Ja 156. (MLRA 9:7)
(Petroleum)

PAVLOUS KAYA, N. T

SOV/81-59-19-69221

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 19, p 393 (USSR)

AUTHORS:

Vinogradov, G.V., Semechkin, L.Ya., Pavlovskaya, N.T.

TITLE:

On the Changes in the Composition of Engine Oils in the Process of

Their Application

PERIODICAL:

V sb.: Scstav i svoystva vysokomolekul. chasti nefti. Moscow, AN SSSR,

1958, pp 185 - 188

ABSTRACT:

The changes in the chemical group composition of the MS-14 aircraft oil from the best Emba petroleum and of the SU machine oil from Balakhany oil petroleum were investigated after working without addition in the engines V-2 (MS-14), "Hercules" (MS-14 and SU) and "Mercedes-Benz" (SU) for 50 - 60 hours. The oils were separated on industrial silicagel of type ASK at the ratio of the volumes of silicagel to oil of 5:1 and the dilution of the oil by isooctane in a ratio of 1:6. The naphthene-

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paraffine fraction and the monocyclic aromatic or naphthene-aromatic hydrocarbons were desorbed by isooctane, the remaining aromatic fraction

SOV/81-59-19-69221

On the Changes in the Composition of Engine Cils in the Process of Their Application

by benzene, and the resinous substances at first by an alcohol-benzene mixture (1:1) and later on by acetone. For the first time it has been established that during operation of engine oils in diesel motors for 50 - 60 hours, their chemical group composition remains practically unchanged.

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Card 2/2

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-	PHASE I BOOK EXPLOITATION SOW 5055	Vescyuzhaya konferentalya po treniyu i iznosu v mishinakh. 1945.	Objectinanthaskaya teoriya smarki. Opory skol'zheniya, Saarka olismoteniya asterialy (Ejurodynant Theory of Lubrication. 11 paserings. Lubrication and Lubricant Materials) Moscow. Slip Bearings. Lubrication and Lubricant Materials) Moscow. Side of Sissa. 425 p. Errats ally inserted. 3,800 copies meinted. (Series: Ifs: Frody. 9.)	Sponsoring Agency: Akademiya nauk SSSR. Institut mashinovedeniya. Sponsoring Agency: the Section "Mydrodynasic Theory of Lubrication Red Sing Bearings": Ye. M. Out'yar. Professor. Doctor of Tech- nical Sciences and M. K. D'yankov, Professor. Doctor of Tech- nical Sciences: Man M. K. D'yankov, Professor. Doctor of Lubricant Reps. Ed. for the Section, "Lubrication and Lubricant Xizeriala" O. V. Vinogradov, Professor. Doctor of Chamital Sciences: Ed. of Publishing House: M. Ya. Klebanov;	PURPOSE: This collection of articles is intended for practicing engineers and research scientists.  GOVERAGE: The collection, published by the institut manhiory of many as a SSSR (Institute of Science of Machines, Academy of Science SSSR) contains papers presented at the ILI was sequentary and the state of Science of Machines and Science of Machines (Third All-Union Conference on Friction and Wear in Machines with was hald April 9-15, 1958. Problems discussed were in	Bydrodynamic Theory (Cont.)  Egyowehlpskiy, M. W. On Unsteady Motions of the Journal in a Bearing ('freniye' i iznos v mashinakn' 7. it, izd-vo A8 sten 1060)	II. IUDRICATION AND IUBRICANT MATERIALS Tubercant Materials and West	Vinogradov, G. V. Some New Methods of Producing and investigating Lubricant Materials	al'enite, I. Ta., Ke. M. Oparina, L. M. Sentyurithina, and L. M. Sentyurithina, and L. M. Santyurithina of Molybdenus as a Lobricant Material	Retborod.ko. M. D., M. T. Bayloriesh, and V. V. Artharova. Miffect of the Composition and the Chafatter of Casous Media on the Wear-Resistant Properties of Petroleus Lubri- esting Olis	Vinted! S.T. Contact Effect in wear as a Factor in the Oxidation of the 011 in Engines	Vinogradov G. T., V. V. Arkharova, H. T. Pavlovskaya, and H. D. Barborod'so. Wear-Resistant and Antifriction Properties of Salt Pusions	Viehnyakor F. A., and V. G. Lebeder. Abrasive West of Roller Rearings in the Presence of a Lubricant Material	Elisov, E. I., and G. I. Kichkin, Critical Temporature of an Oll Film in Sliding Contact of Steel Surfaces, and the Dispersive Capacity of the Oll	Latovakaya, O. V. Methods for Determining the Critical Tesperatures of an Oil Film in the Case of Friction of Steel Against Antifriction Alloys	Morocova, O. Te. Vear-Resistant Reactions of Suifur- organic Compounds as Additives to Lubricant Olis	÷ (7)	
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Shame 4-Survival of anchovy larvae in the northwestern part and other regions of the Black Sea in 1954-1955 as affected by feeding conditions. Dokl. AN SSSR 120 no. 2:415-418 by '58. (MIRA 11:7)

> 1. Azovsko-chernomorskiy mauchno-issledovatel'skiy institut morskogo-rybnogo khosyaystva i okeanografii. Predstavleno skademikom Ye. H. Pavlovekim.

(Black Sea--Anchovies)

PAVLOVSKAYA, R.M.

Some characteristics of the yield of individual generations of the anchovy (Engraulis encrasicholus L.) of the Black Sea. Vop. (MIRA 1676) ekol. 5:156-157 '62.

l. Azovo-Chernemorskiy nauchno-issledovatel'skiy institut morskogo rybnogo khozyaystva i okeanografii, Kerch'. (Black Sea--Anchovies)

PAVLOVSKAYA, R. M., Cand Biol Sci -- (diss) "Biological reproduction of the Black Sea anchovy." Odessa, 1960. 19 pp; (Ministry of Higher and Secondary Specialist Education Ukrainian SSR, Odessa State Univim I. I. Mechnikov); 200 copies; price not given; (KL, 28-60, 159)

AUTHOR: Pavlovskaya, R. M. 307/ 20-120-2-55/63

TI TLE: On the Survival of Anchovy Larvae (Engraulis

Encrasicholus Z.) in the North-Western Part and Other Regions of the Black Sea in the Years 1954-1955, as

Dependent on Feeding-Conditions (O vyzhivayemosti lichinok khamsy v severo-zapadney chasti i v nekotorykh drugikh rayonakh Chernogo morya v 1954-1955 gg. v zavisimosti ot

kormovykh usloviy)

Doklady Akademii Nauk SSSR, 1958, Vol. 120, Nr 2, PERIODICAL:

PP 415-418 (USSR)

ABSTRACT: The problem of the factors which influence the numerical

fluctuation of the main kinds of the economically important fishes remains little researched. One of the main causes determining fluctuations as mentioned in the title, is the survival of earlier stages of development, especially the survival of the larvae during the first stage of active feeding (reference 1). In summer 1954-1955 the mentioned

conditions were studied by means of analyses of the

intestinal contents. At the same time the amount of feedingobjects was determined in 1 m3 of sea-water. The composition Card 1/4

On the Survival of Anchovy Larvae (Engraulis 5.7,20-120-2-55/63 Encrasicholus Z.) in the North-Western Part and Other Regions of the Black Sea in the Years 1954-1955, as Dependent on

of the food of the anchovy was studied already earlier by the author (reference 1). The 4-10 mm big and novy-larvae feed on small, little movable forms of zooplankton. The composition of the food according to quality is not rich and remains unchanged from year to year. In order to be able to characterize the feeding-conditions the author used the number of those food-objects in 1 m3 of water, on which the larvae feed during the stage of development concerned. The density of feeding-organisms was larger in 1954 than in 1955, so that the indices of intensity of the feeding of larvae were higher in 1954 (table 1). The feeding-organisms were also more regularly distributed in 1954 (figure 1). In the region of the estuary of the Dunay to Cape Tarkhankut were 5-14 thousand individuals per m3 (figure 1). The anchovylarvae were also in the same region (figure 2). The density of occurring of the feeding-objects and the feeding-intensity of the anchovy-larvae are closely related (figure 5).

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On the Survival of Anchovy Larvae (Engraulis 501/20-120-2-55/63 Encrasichelus Z.) in the North-Western Part and Other Regions of the Black Sea in the Years 1954-1955, as Dependent on Feeding-Conditions

The most intensive feeding of the larvae took place in 1954, when the density was 14000 per m3. At a number of 5-6000 organisms the feeding-intensity decreased rapidly and at a number of organisms below 1000 per m3 larvae with empty intestines were found. In July 1955 the larvae fed intensively only in a small region (figure 1) whereas in other regions they had to starve. This was also the reason why the velocity of the increase in weight was slower in 1955 than in 1953-1954. Also older larvae of 10-25 mm length found less food. The minute feeding-intensity in July-August 1955 led also to a reduced survival in that year. In the region around the Krym and in the eastern part of the sea the feeding-conditions were essentially better. In August the young of the anchovy were distributed over the whole region of the sea. According to observations the following conclusions were possible: In years of unfavourable hydrometeorological conditions the development of the feedingzooplankton delays and takes place in August. Thus an

Card 3/4

On the Survival of Anchovy Larvae (Engraulis JUV, 20-120-2-55/63 Encrasicholus Z.) in the North-Western Part and Other Regions of the Black Sea in the Years 1954-1955, as Dependent on Feeding-Conditions

> incongruity of the mass-hatching of the anchovy-larvae occurs which leads to the death of greater amounts. As example the years 1949, 1952 and 1955 are taken where in spite of considerable amounts of spawn the new generation was small in number. There are 1: igure, 3 tables and 1 Soviet reference.

ASSOCIATION: Azovsko-chernomorskiy nauchno-issledovatel skiy institut

morskogo rybnogo khozyaystva i okeanografii

(Azov-Black Sea Scientific Research Institute for Marine

Fish Economy and Oceanography)

PRESENTED: February 6, 1958, by Ye. N. Pavlovskiy, Member, Academy of

Sciences USSR

SUBMITTED: July 19, 1956

1. Anchovy-Nutrition 2. Anchovy-Survial factors

Card 4/4

"Spawning of Commercial-Grade Fish in the Karkinitskiy Bay and in Other Regions of the Black Sea," Dok. AN, 70, No. 2,

1950. Azov-Black Sea Sci. Res. Inst. Deep-Sea Fishing

Ind. & Oceanography, -c1950-.

PAVLOVSKAYA, R. M.

STATES TO STATE TO STATE STATES AND STATES A

PAVLOVŠKITA, E. II.

Fishes.

Miltiplication of Black Sea Sprattus sprattus phalericus (Risso)., Dokl. AN JUR, 32, no. 1, 1952.

Axovsko-Chernomorskiy Mauchno-Issled vateliskiy Institut Morskogo Rybnego Khozyaystva I Okeanografii

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SO: Monthly List of Russian Accessions, Library of Congress,

1953, Uncl.

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ABSTRACT: A	means for con	mouting the	effect of the	lope of a front	al surface in
calculating	reopotential i	fields and v	ertical velocit	ties is describe	d. The work
makes use of	the atmospher	ric model pr	oposed by V. P.	Sadokov (K uch vleniya i verti	kalnykh tokov.
Trontal nyku	razuerov jar	Gidrometeriz	dat. 1957). T	e atmosphere is	viewed as a
liquid consi	ating of a ho	t and a cold	mass separate	l by an inclined	frontal surface
The frontal :	surface is a	olane passin	g through the	origin of coordi	nates; it is
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			$\frac{\partial}{\partial x} = -\frac{1}{p} \frac{\partial p}{\partial x} + l_1$	<b>12</b>	

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ACCESSION NR: AP5020855

$$\frac{dv}{dt} = -\frac{1}{P} \frac{\partial p}{\partial y} - lu;$$

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$$\frac{\partial T}{\partial t} - \frac{1}{g_1} \cdot \frac{\partial p}{\partial t} = 0;$$

Several boundary conditions are established, along with the vorticity equation and definitions of variables and indices. A generalized form of the problem is expressed as a Poisson equation subject to several limiting conditions. Geopotential is expressed in terms of frontal dimensions. The width dimension is solved through the use of a beta function method, where the width (for one case) is expressed as

$$q_1 = \frac{1}{4\pi^2} \iiint G' A(x'xy' do)'$$

x, y, and o are coordinate variables, G is given by Cord 2/3

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tekhn. nauk; GOMOLYAKO, I.M.; TAL', K.K.; GUSEVA, K.G.;
LUGOVOY, P.A.; MASSAN, A.M.; GALKIN, N.V.; SAPRYGHNA, G.M.;
CHESNOKOV, D.S.; DROZDKOV, V.I.; IZYUMOV, P.S.; ZAK, B.O.;
KOROGID, P.Ye.; MAKSIMOVICH, L.N.; ZBOROVSKAYA, M.I.;
PAVLOVSKAYA, S.A.; BORISOV, A.V.; SELIVANETS, N.Ye.; ITKES,
V.M.; YATSKEVICH, Ya.D.; KOZYRSKIY, N.P.; NIKITIN, V.D.;
NEKLEPAYEVA, Z.A., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Design and planning of railroad stations and junctions]
Proektirovanie zheleznodorozhnykh stantsii i uzlov; spravochnoe i metodicheskoe proizvodstvo. Moskva, Transzheldorizdat, 1963. 443 p. (MIRA 16:12)

1. Nauchno-issledovatel'skiy institut transportnogo stroitel'stva (for Guseva). 2. Gosudarstvennyy institut tekhnikoekonomicheskikh izyskaniy i proyektirovaniya zheleznodorozhnogo transporta (for Zak). 3. Kiyevskiy gosudarstvennyy proyektno-izyskatel'skiy institut (for Kozyrskiy). 4. Moskovskiy
institut inzhenerov zheleznodorozhnogo transporta Im. I.V.
Stalina (for Nikitin).

(Railroad engineering)

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AUTHOR: Pavlovskaya, S. A.

ORG: Institute of Mathematics im. V. I. Romanovskiy AN UzSSR (Institut matematiki AN UzSSR)

TITLE: An application of the line method for solving the problem on the frontal surface in computing the geopotential field

SOUNCE: AN UZSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 5, 1966, 33-40

TOPIC TAGS: finite difference, atmospheric geopotential, atmospherics, atmospheric front, Lagrange equation

ABSTRACT: The technique of substituting a sum for an integral and a finite difference for a derivative is applied to the problem of geopotential field computation. Errors encountered in the use of the Buleyev-Marchuk method are reduced through a rule proposed by M. I. Yudin (V. Tr. GGO., L., Gidrometeoizdat, vyp. 71, 1957). This rule consists of the substitution of finite difference for derivatives not only on the right-hand side of the equations, but also on the left-hand side. Influence functions are then defined on vertical lines passing through node points of the network. The author considers the atmosphere as a fluid consisting of hot and cold air masses divided by a sloping frontal surface. This surface is a plane passing through the origin of coordinates, and, in the general case, having the equation  $\xi = z(x,y,t)$ .

Cord 1/2

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The solution for each air mass is found separately, and then the solutions are "blended" at the frontal surface by means of boundary conditions. The basic system of equations is that obtained by S. A. Pavlovskaya (Izv. AN UzSSR, seriya fiz-mat. nauk, 1965, No. 4). The finite differences method is applied to a right-triangular grid such as is shown in Fig. 1.

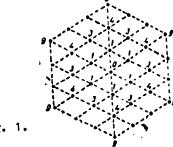


Fig. 1.

A general solution is worked out, using the approach stated above, and the Lagrange method is used for evaluating certain constants appearing in the general solution. The trapezoidal rule is used for evaluating certain integral terms. Orig. art. has: 1 figure and 13 equations.

SUB CODE: 04/ SUBM DATE: 14Dec65/ ORIG REF: 004

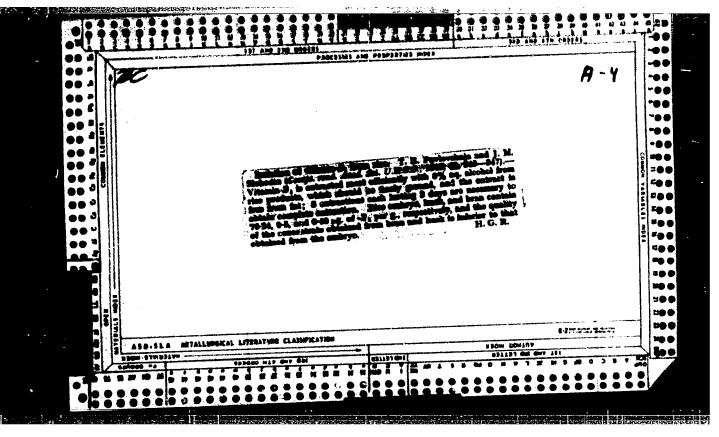
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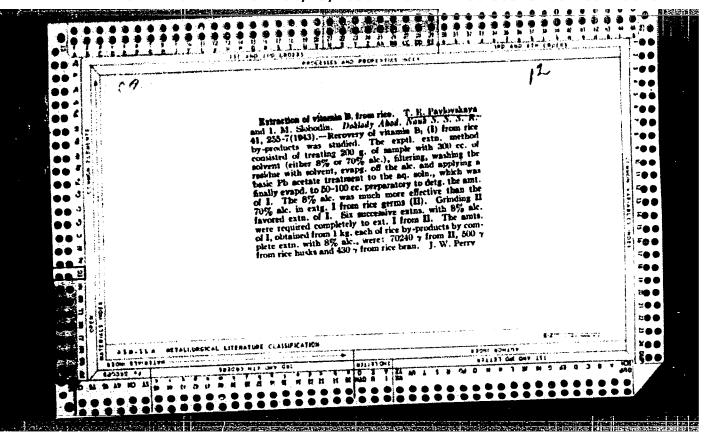
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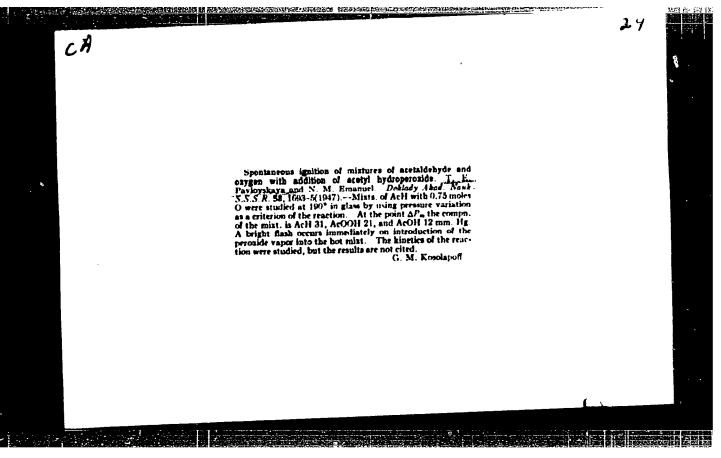
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Hard anodizing of sintered aluminum powder. Vest.mashinostr. 43 no.11:
21-22 N '63.

(MIRA 17:2)



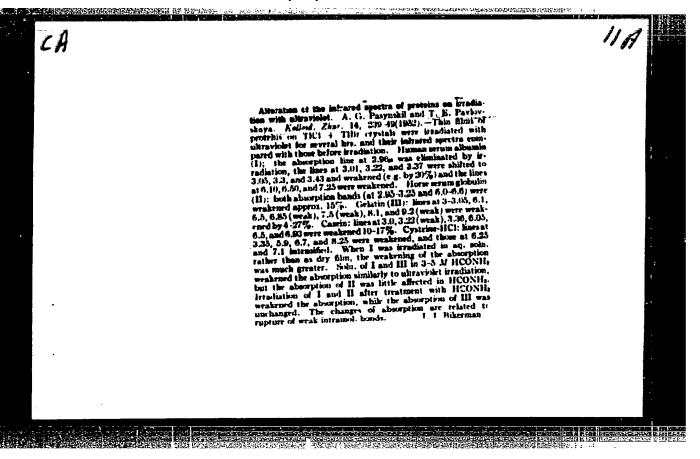




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Inst. Chemical Physics, Acad. Sci. USSR

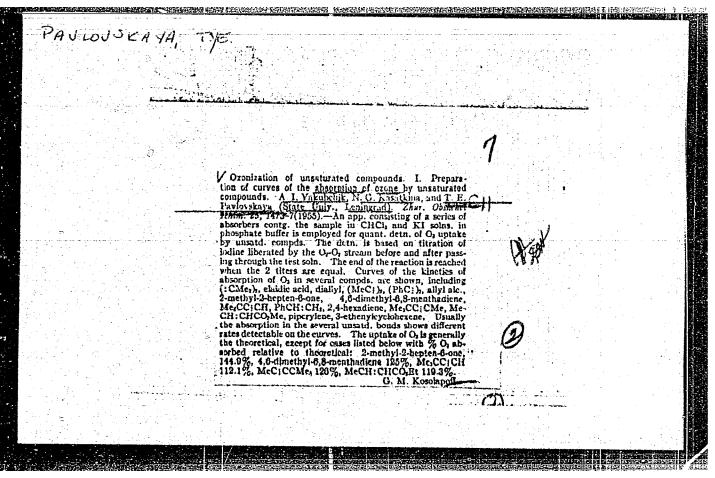


PAVLOVSKAYA, T. Ye.; PASYNSKIY, A.G.

Changes in the ultraviolet and infrared spectra of proteins due to the effects of radiation. Koll. zhur.17 no.4:305-314 J1-Ag'55.

(MIRA 8:11)

1. Institut biokhimii Akademii nauk SSSR imeni A.N.Bakh, Moscow (X rays--Physiological effect)



USSR/Biology - Biochemistry

Pub. 22 - 37/52 Card 1/1

Authors Pavlovskaya, T. Ye.; Volkova, M. S.; and Pasynskiy, A. G.

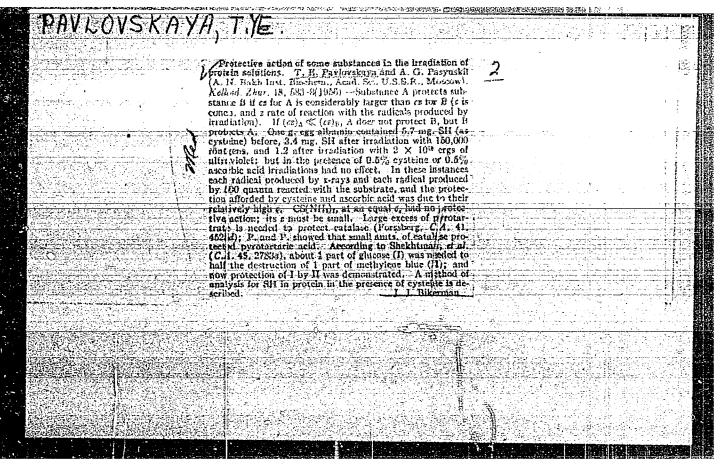
Change in 535 methionine blood-serum bonds during denaturing by Title radiation and heating

Periodical : Dok. AN SSSR 101/4, 723-726, Apr 1, 1955

It is shown, on the basis of experimental data, that the denaturing Abstract of serum albumina by radiation with ultraviolet or x-rays, and by heating is accompanied by an increased absorption of the marked methionine regardless of whether the serum is pure or under the effect of the microbe factor. The increased adsorbability during denaturing was found to be due to the liberation of new active groups which become saturated by each other. The nature of such active groups is described. Four USSR references (1948-1955). Graphs.

Institution : Acad. of Sc., USSR, The A. N. Bakh Inst. of Biochemistry

Presented by : Academician A. I. Oprain, January 14, 1955



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"The Primary Formation of Amino Mids in ultraviolet rays and in electric Discharge," a paper presented at the International Symposium on the Odgin of Life, Moscow, 19-24 Aug 1957.

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on serum albumin solution in presence of air & in
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vacuum (Rns))

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PAVLOVSKAYA, T.Ye.

dissertation defended for the degree of Candidate of Biological Sciences at the Inst. for Zoology.

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Vest. AN SSSR, 1957, v. 27, No. 12, pp. 115-117

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